

SUSTAINABILITY GOAL #1

Sustain all facility and mobility systems from renewable sources, and reduce the total water purchased from outside sources by 75%.



MG Mark Graham, Commanding General, Division West, First Army and Fort Carson (front left) and Colorado Governor Bill Ritter dedicate the Carson Solar I photovoltaic array in January 2008. The 2-megawatt array is the largest of its kind in the Army.

Where the goal fits in the Fort Carson Strategic Action Plan

- Goal #1 Promote mutual respect, professional development, personal growth and teamwork, while celebrating success.
- Goal #2 Provide the services and support that contribute to mission readiness.
- Goal #3 Positively contribute to the spiritual, physical, psychological, and emotional well-being of the Mountain Post Community and create opportunities to enhance understanding of Fort Carson for our local neighbors.
- Goal #4 Provide vibrant, healthy, safe and environmentally-friendly places and spaces and Hometown services for the Mountain Post.
- Goal #5 Transform Fort Carson people, processes, products, places and profits – to show by our actions what sustainability and environmental management is, and its critical role in meeting the mission in all its dimensions by 2027.

ENERGY & WATER

Energy Initiatives

Fort Carson threw its support solidly behind a larger-scale renewable energy initiative by hosting a 2-megawatt, contractor-owned/contractor-operated photovoltaic array located on a former landfill. The 12-acre array, completed in December 2007, is the largest of its kind in the Army. The array is estimated to generate 3,200 megawatt-hours (MWh) of power annually, which equates to approximately 2.3 percent of Fort Carson's energy consumption, or enough to power 540 homes on Post per year.

Fort Carson is looking toward other renewable energy sources to add to its portfolio and is considering the feasibility of wind power. A 50-meter meteorological tower was erected and began collecting data on the southeast portion of Fort Carson December of 2007.

Several energy-use reduction projects were initiated this year including replacement of several larger boilers, expansion of energy management control systems to several facilities and required use of U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) rating system in new construction.

Water Initiatives

Fort Carson is making progress on achieving its water conservation objectives through using waterless urinals, water-wise appliances and xeriscape landscaping in new construction.

Fort Carson participates in the Fountain Creek Task Force to reduce flooding, erosion and water pollution by proactive methods including low-impact development and stormwater mitigation systems.

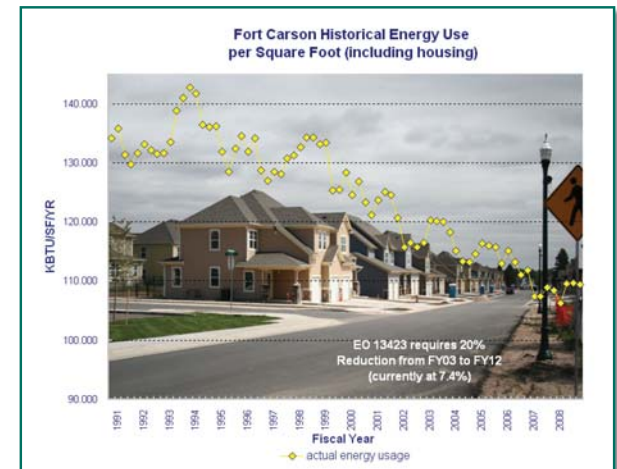


A 50-meter meteorological tower erected on the southeast portion of Fort Carson began collecting wind data as part of a wind energy feasibility study in December of 2007.



FORT CARSON, COLORADO

For more information log on to <http://sems.carson.army.mil>



Energy projects saved the Installation an estimated \$200,000 this last year.

FUTURE GOAL 1 INITIATIVES:

- Initiate wind tower project if data is positive and environmental, military training and public concerns are addressed.
- Plan and complete a large-scale lighting retrofit for high bay areas and associated administrative spaces.
- Installation of ground source heat pump (GSHP) technology in construction of the new Band Training Facility. These systems use the earth's relatively constant temperature to provide heating, cooling and hot water for facilities.

OPPORTUNITIES:

- Collaborating and partnering with the utility providers, public and private businesses, designers, builders, agricultural cooperatives and many others to facilitate renewable and alternative energy systems for Fort Carson and the region.
- Pursuing the technical expertise to investigate retrofitting facilities for GSHP projects.
- Gaining access to opportunities to include renewable energy applications in new construction projects.